**WEEKLY PROGRESS REPORT**

**Sightline Capstone Project**

**Week 17**

**5 May 2019**

**Tai:**

**This week:**

Check and add more information to the Test Plan.

Check prefight test for the quadcopter to make sure everything is good. Test if vehicle is able to arm/disarm/takeoff properly using Qgroundcontrol.

Checking wireless communication between the vehicle and ground control station (GCS). There are some important notes that I observed:

* The communication between vehicle and GCS was slow compared to the wired communication.
* The signal transmitted wirelessly was inconsistent and incomplete. Signal was lost sometimes.
* There are evidences of the SLA-hardware communication. Without SLA-hardware, the rate TX was small (5.88). With SLA hardware, the rate TX was 18. The data rate increased from 1200 byte/s to 80000 byte/s. This allow us to confirm that the SLA-hardware actually transmits the signal through the Pixhawk 4 to GCS.

**Next week:**

**Meeting with Jeremy to discuss about the communication**

**Doing the flight test.**

**Question:**

**Kimball:**

**This Week:**

* Meeting at Sightline
* Made adjustments to SLA1500CAM Rev 7.0
* Created SLA1500CAM Rev 8.0
* Generated Gerber files for manufacturing based on SLA1500CAM Rev 8.0
* Created component placement documents for assembly pushed to [Github](https://github.com/phamtaiece/Capstone-Sightline/tree/master/EAGLE%20files/FAB)
* Updated and reformatted Test Plan for SLA1500CAM Rev 8.0 pushed to [Github](https://github.com/phamtaiece/Capstone-Sightline/blob/master/Test%20Plan/SLA1500_CAM_TestV1.pdf)
* Gerber files have been sent to Sunstone for board manufacturing

**Next Week:**

* Flight Test #3
* Work on the following final documentation:
  + Test Plan for SLA1500 CAM
  + Design Report
  + Power Point Presentation
  + Poster Design

**Comments/Questions:**

None at this time